CIVIL-TECH CONSULTANTS AND ENGINEERS

(Building, Geo-Tech & High way Material Testing Research Laboratory)

Engineering Project Consultants

Job No.: CTCE/BBMP/WNo.14/CPK/CEMENT/2012-13

Date: 28.11.2012

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. C. Puneeth Kumar**, Contractor, Bangalore.
NAME OF THE WORK	:	Construction of RCC drains at Manjunatha Nagara 6th Cross in Ward No. 14 Bagalagunte, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2012-13 Dated 26.11.2012
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	193 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	488 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Information is furnished by the Agency.

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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Engineering Project Consultants

Job No.: CTCE/BBMP/WNo.14/CPK/SAND/2012-13 : 28.11.2012

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Mr. C. Puneeth Kumar,** Contractor, Bangalore.

Name of Work : Construction of RCC drains at Manjunatha Nagara 6th Cross in Ward No. 14 Bagalagunte, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2012-13 Dated 26.11.2012

Date of Testing : 28.11.2012

Material : Sand Total Wt. of Aggregates in gms **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	48	3.20	3.20	96.8	90-100
2.36	197	13.13	16.33	83.7	75-100
1.18	286	19.07	35.40	64.6	55-90
600 Micron	416	27.73	63.13	36.9	35-59
300 Micron	329	21.93	85.07	14.9	8-30
150 Micron	153	10.20	95.27	4.7	0-10

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Engineering Project Consultants

Job No.: CTCE/BBMP/WNo.14/CPK/AGG/2012-13 : 28.11.2012

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Mr. C. Puneeth Kumar,** Contractor, Bangalore.

Name of Work : Construction of RCC drains at Manjunatha Nagara 6th Cross in Ward No. 14 Bagalagunte, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2012-13 Dated 26.11.2012

Date of Testing : 28.11.2012

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	575	3.83	3.83	96.17	95-100
20	9326	62.17	66.01	33.99	30-70
10	2687	17.91	83.92	16.08	10-35
4.75	1982	13.21	97.13	2.87	0-5

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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Engineering Project Consultants

Job No.: CTCE/BBMP/WNo.14/CPK/STEEL/2012-13 28.11.2012

TEST REPORT ON REINFORCEMENT STEEL

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Mr. C. Puneeth Kumar,** Contractor, Bangalore

Name of the Work : Construction of RCC drains at Manjunatha Nagara 6th Cross in Ward No. 14 Bagalagunte, BBMP, Bangalore.

Reference : BBMP/DZ./AEE/TDSD/PR/2012-13 Dated 26.11.2012

Date of Test : 28.11.2012

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.397	513	547	12.80	O.K	O.K
2	10	0.621	516	551	13.00	O.K	O.K

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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Engineering Project Consultants

Job No.: CTCE/BBMP/WNo.14/CPK/Kerb Stone/2012-13

06.12.2012

CC KERB STONE (CORE) TEST REPORT

Name of Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Name of Agency	:	**Mr. C. Puneeth Kumar,** Contractor, Bangalore.
Name of work	:	Construction of RCC drains at Manjunatha Nagara 6th Cross in Ward No. 14 Bagalagunte, BBMP, Bangalore.
Referece	:	BBMP/DZ/AEE/TDSD/PR/2012-13 Dated 26.11.2012
No.of Sample Tested	:	03
Date of Testing	:	06.12.2012
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.387	2526.89	1.56	0.960	25.5	12.98	14.02	13.46	16.82
2	50.00	79.00	0.394	2540.03	1.58	0.960	25.7	13.09	14.14	13.58	16.97
3	50.00	80.00	0.401	2552.85	1.60	0.960	26.0	13.22	14.28	13.71	17.13

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Engineering Project Consultants

Job No.: CTCE/BBMP/WNo.14/CPK/CUBE/2012-13 28.12.2012

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore

Agency : **Mr. C. Puneeth Kumar,** Contractor, Bangalore.

Name of the work : Construction of RCC drains at Manjunatha Nagara 6th Cross in Ward No. 14 Bagalagunte, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2012-13 Dated 26.11.2012

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.11.2012	28.12.2012	8.459	525.4	23.35
2	30.11.2012	28.12.2012	8.362	501.2	22.28
3	30.11.2012	28.12.2012	8.273	482.7	21.45

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